



Fig. 1

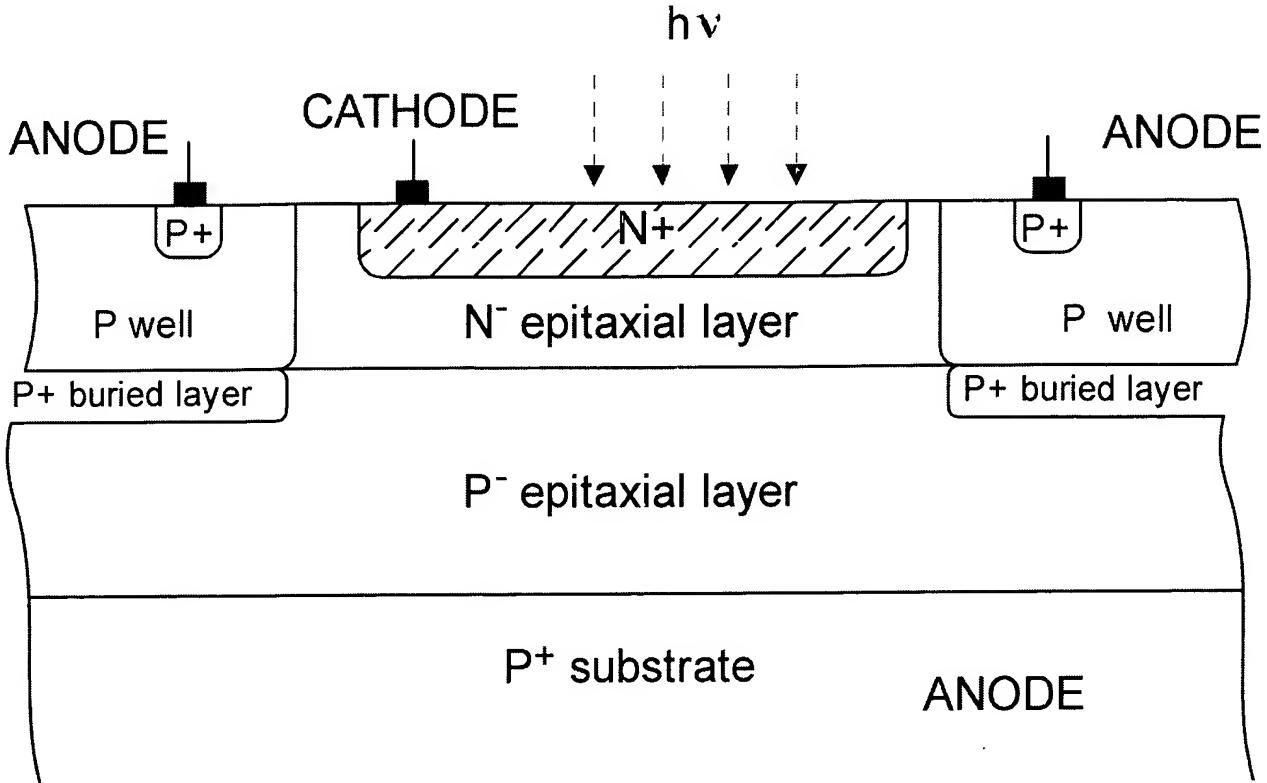


Table 1

	standard process		modified Process	
	670 nm	785 nm	670 nm	785 nm
optical wavelength λ	670 nm	785 nm	670 nm	785 nm
quantum efficiency η (%)	94.3	71.3	96.5	63.4
sensitivity R (A/W)	0.508	0.450	0.520	0.400
rise time t_R (ns)	3.00	12.40	0.610	1.465
fall time t_F (ns)	6.50	10.40	0.515	1.480
3dB bandwidth BW (MHz)	79.3	30.8	625	238
capacitance C_D (fF/ μm^2)	0.134	0.134	0.0105	0.0105

Fig. 2

2/2

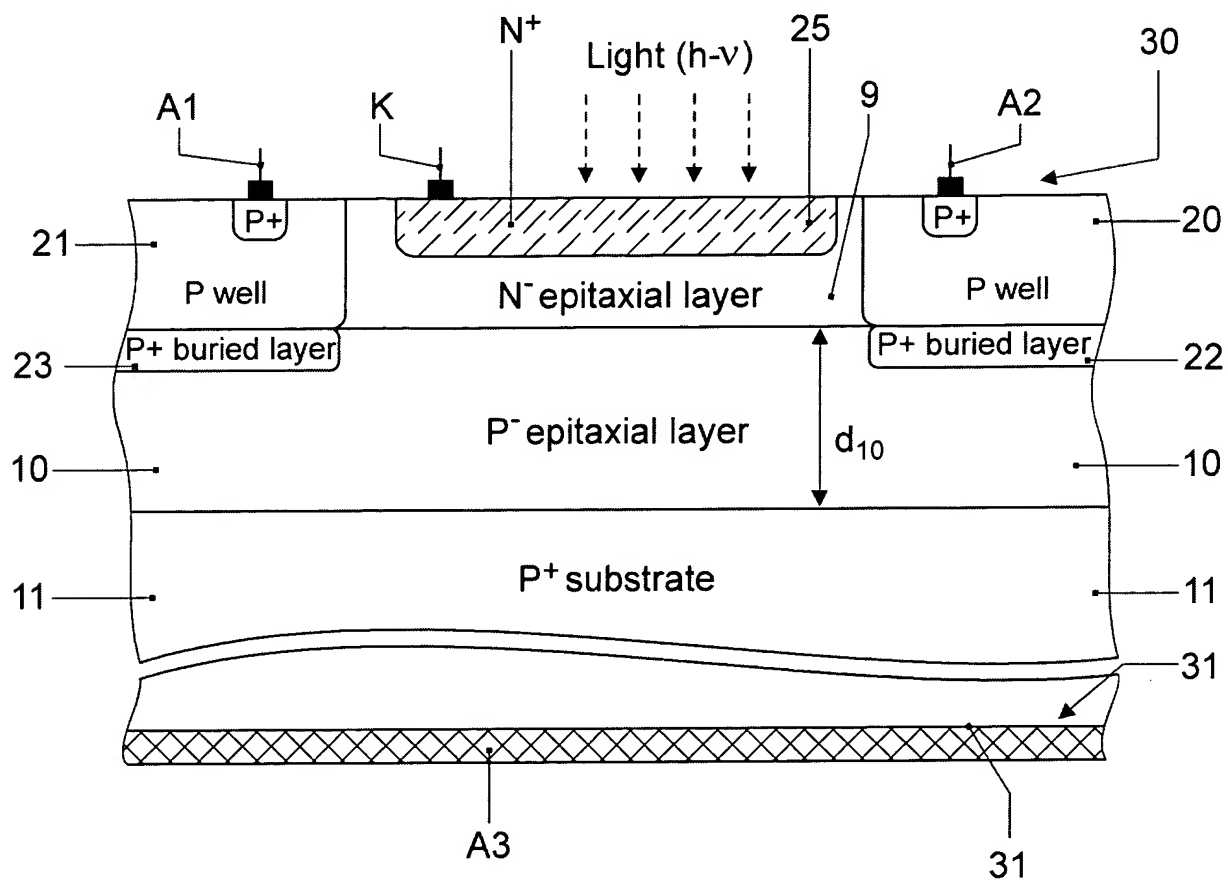


Fig. 3

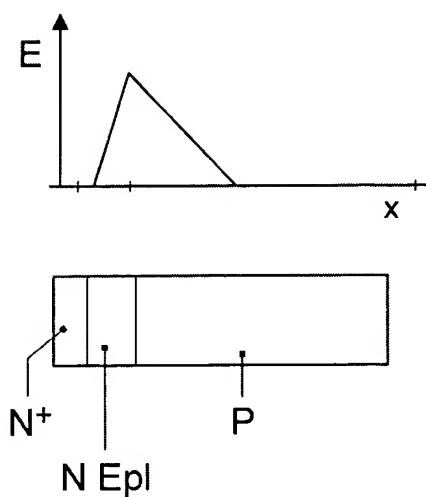


Fig. 4

